

# Global Monocrystalline N-type TOPCon Cell Supply, Demand and Key Producers, 2023-2029

<https://marketpublishers.com/r/GF34B812633BEN.html>

Date: September 2023

Pages: 113

Price: US\$ 4,480.00 (Single User License)

ID: GF34B812633BEN

## Abstracts

The global Monocrystalline N-type TOPCon Cell market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

N-Type TOPCon cells are based on an n-doped crystalline silicon wafer.

Photovoltaic cells differ in their layer structure into positively charged P-type cells and negatively charged N-type cells. With P-type cells, the base layer is doped with boron, which has one electron less than silicon. This creates an electron hole and the positive charge carriers predominate. In N-type cells, the base layer is doped with phosphorus. This has one electron more than silicon. This doping generates free electrons.

The higher efficiency of N-type cells is caused by these free electrons. They are also responsible for the extremely low power losses and prevent phenomena such as PID and LID.

This report studies the global Monocrystalline N-type TOPCon Cell production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Monocrystalline N-type TOPCon Cell, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Monocrystalline N-type TOPCon Cell that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Monocrystalline N-type TOPCon Cell total production and demand, 2018-2029, (MW)

Global Monocrystalline N-type TOPCon Cell total production value, 2018-2029, (USD Million)

Global Monocrystalline N-type TOPCon Cell production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (MW)

Global Monocrystalline N-type TOPCon Cell consumption by region & country, CAGR, 2018-2029 & (MW)

U.S. VS China: Monocrystalline N-type TOPCon Cell domestic production, consumption, key domestic manufacturers and share

Global Monocrystalline N-type TOPCon Cell production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (MW)

Global Monocrystalline N-type TOPCon Cell production by Efficiency, production, value, CAGR, 2018-2029, (USD Million) & (MW)

Global Monocrystalline N-type TOPCon Cell production by Application production, value, CAGR, 2018-2029, (USD Million) & (MW).

This reports profiles key players in the global Monocrystalline N-type TOPCon Cell market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Jolywood, LONGI, Jinko Solar, JA Solar, Trina Solar, Jietai Solar, LUXOR, Recom and AE Solar, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Monocrystalline N-type TOPCon Cell market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MW) and average price (US\$/kW) by manufacturer, by Efficiency, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

#### Global Monocrystalline N-type TOPCon Cell Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Monocrystalline N-type TOPCon Cell Market, Segmentation by Efficiency

>22%

>24%

>25%

Others

#### Global Monocrystalline N-type TOPCon Cell Market, Segmentation by Application

Industrial and Commercial Applications

## Household Application

### Companies Profiled:

Jolywood

LONGI

Jinko Solar

JA Solar

Trina Solar

Jietai Solar

LUXOR

Recom

AE Solar

Hainan Junda Auto-Decoration

DAS Solar

Chint New Energy

CSI Solar

Tongwei

### Key Questions Answered

1. How big is the global Monocrystalline N-type TOPCon Cell market?

2. What is the demand of the global Monocrystalline N-type TOPCon Cell market?
3. What is the year over year growth of the global Monocrystalline N-type TOPCon Cell market?
4. What is the production and production value of the global Monocrystalline N-type TOPCon Cell market?
5. Who are the key producers in the global Monocrystalline N-type TOPCon Cell market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Monocrystalline N-type TOPCon Cell Introduction
- 1.2 World Monocrystalline N-type TOPCon Cell Supply & Forecast
  - 1.2.1 World Monocrystalline N-type TOPCon Cell Production Value (2018 & 2022 & 2029)
  - 1.2.2 World Monocrystalline N-type TOPCon Cell Production (2018-2029)
  - 1.2.3 World Monocrystalline N-type TOPCon Cell Pricing Trends (2018-2029)
- 1.3 World Monocrystalline N-type TOPCon Cell Production by Region (Based on Production Site)
  - 1.3.1 World Monocrystalline N-type TOPCon Cell Production Value by Region (2018-2029)
  - 1.3.2 World Monocrystalline N-type TOPCon Cell Production by Region (2018-2029)
  - 1.3.3 World Monocrystalline N-type TOPCon Cell Average Price by Region (2018-2029)
  - 1.3.4 North America Monocrystalline N-type TOPCon Cell Production (2018-2029)
  - 1.3.5 Europe Monocrystalline N-type TOPCon Cell Production (2018-2029)
  - 1.3.6 China Monocrystalline N-type TOPCon Cell Production (2018-2029)
  - 1.3.7 Japan Monocrystalline N-type TOPCon Cell Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Monocrystalline N-type TOPCon Cell Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Monocrystalline N-type TOPCon Cell Major Market Trends
- 1.5 Influence of COVID-19 and Russia-Ukraine War
  - 1.5.1 Influence of COVID-19
  - 1.5.2 Influence of Russia-Ukraine War

### 2 DEMAND SUMMARY

- 2.1 World Monocrystalline N-type TOPCon Cell Demand (2018-2029)
- 2.2 World Monocrystalline N-type TOPCon Cell Consumption by Region
  - 2.2.1 World Monocrystalline N-type TOPCon Cell Consumption by Region (2018-2023)
  - 2.2.2 World Monocrystalline N-type TOPCon Cell Consumption Forecast by Region (2024-2029)
- 2.3 United States Monocrystalline N-type TOPCon Cell Consumption (2018-2029)
- 2.4 China Monocrystalline N-type TOPCon Cell Consumption (2018-2029)
- 2.5 Europe Monocrystalline N-type TOPCon Cell Consumption (2018-2029)

- 2.6 Japan Monocrystalline N-type TOPCon Cell Consumption (2018-2029)
- 2.7 South Korea Monocrystalline N-type TOPCon Cell Consumption (2018-2029)
- 2.8 ASEAN Monocrystalline N-type TOPCon Cell Consumption (2018-2029)
- 2.9 India Monocrystalline N-type TOPCon Cell Consumption (2018-2029)

### **3 WORLD MONOCRYSTALLINE N-TYPE TOPCON CELL MANUFACTURERS COMPETITIVE ANALYSIS**

- 3.1 World Monocrystalline N-type TOPCon Cell Production Value by Manufacturer (2018-2023)
- 3.2 World Monocrystalline N-type TOPCon Cell Production by Manufacturer (2018-2023)
- 3.3 World Monocrystalline N-type TOPCon Cell Average Price by Manufacturer (2018-2023)
- 3.4 Monocrystalline N-type TOPCon Cell Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Monocrystalline N-type TOPCon Cell Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Monocrystalline N-type TOPCon Cell in 2022
  - 3.5.3 Global Concentration Ratios (CR8) for Monocrystalline N-type TOPCon Cell in 2022
- 3.6 Monocrystalline N-type TOPCon Cell Market: Overall Company Footprint Analysis
  - 3.6.1 Monocrystalline N-type TOPCon Cell Market: Region Footprint
  - 3.6.2 Monocrystalline N-type TOPCon Cell Market: Company Product Type Footprint
  - 3.6.3 Monocrystalline N-type TOPCon Cell Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Monocrystalline N-type TOPCon Cell Production Value Comparison
  - 4.1.1 United States VS China: Monocrystalline N-type TOPCon Cell Production Value

Comparison (2018 & 2022 & 2029)

4.1.2 United States VS China: Monocrystalline N-type TOPCon Cell Production Value Market Share Comparison (2018 & 2022 & 2029)

4.2 United States VS China: Monocrystalline N-type TOPCon Cell Production Comparison

4.2.1 United States VS China: Monocrystalline N-type TOPCon Cell Production Comparison (2018 & 2022 & 2029)

4.2.2 United States VS China: Monocrystalline N-type TOPCon Cell Production Market Share Comparison (2018 & 2022 & 2029)

4.3 United States VS China: Monocrystalline N-type TOPCon Cell Consumption Comparison

4.3.1 United States VS China: Monocrystalline N-type TOPCon Cell Consumption Comparison (2018 & 2022 & 2029)

4.3.2 United States VS China: Monocrystalline N-type TOPCon Cell Consumption Market Share Comparison (2018 & 2022 & 2029)

4.4 United States Based Monocrystalline N-type TOPCon Cell Manufacturers and Market Share, 2018-2023

4.4.1 United States Based Monocrystalline N-type TOPCon Cell Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Monocrystalline N-type TOPCon Cell Production Value (2018-2023)

4.4.3 United States Based Manufacturers Monocrystalline N-type TOPCon Cell Production (2018-2023)

4.5 China Based Monocrystalline N-type TOPCon Cell Manufacturers and Market Share

4.5.1 China Based Monocrystalline N-type TOPCon Cell Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Monocrystalline N-type TOPCon Cell Production Value (2018-2023)

4.5.3 China Based Manufacturers Monocrystalline N-type TOPCon Cell Production (2018-2023)

4.6 Rest of World Based Monocrystalline N-type TOPCon Cell Manufacturers and Market Share, 2018-2023

4.6.1 Rest of World Based Monocrystalline N-type TOPCon Cell Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Monocrystalline N-type TOPCon Cell Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers Monocrystalline N-type TOPCon Cell Production (2018-2023)



## **5 MARKET ANALYSIS BY EFFICIENCY**

5.1 World Monocrystalline N-type TOPCon Cell Market Size Overview by Efficiency: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Efficiency

5.2.1 >22%

5.2.2 >24%

5.2.3 >25%

5.2.4 Others

5.3 Market Segment by Efficiency

5.3.1 World Monocrystalline N-type TOPCon Cell Production by Efficiency (2018-2029)

5.3.2 World Monocrystalline N-type TOPCon Cell Production Value by Efficiency (2018-2029)

5.3.3 World Monocrystalline N-type TOPCon Cell Average Price by Efficiency (2018-2029)

## **6 MARKET ANALYSIS BY APPLICATION**

6.1 World Monocrystalline N-type TOPCon Cell Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 Industrial and Commercial Applications

6.2.2 Household Application

6.3 Market Segment by Application

6.3.1 World Monocrystalline N-type TOPCon Cell Production by Application (2018-2029)

6.3.2 World Monocrystalline N-type TOPCon Cell Production Value by Application (2018-2029)

6.3.3 World Monocrystalline N-type TOPCon Cell Average Price by Application (2018-2029)

## **7 COMPANY PROFILES**

7.1 Jolywood

7.1.1 Jolywood Details

7.1.2 Jolywood Major Business

7.1.3 Jolywood Monocrystalline N-type TOPCon Cell Product and Services

7.1.4 Jolywood Monocrystalline N-type TOPCon Cell Production, Price, Value, Gross Margin and Market Share (2018-2023)

- 7.1.5 Jolywood Recent Developments/Updates
- 7.1.6 Jolywood Competitive Strengths & Weaknesses
- 7.2 LONGI
  - 7.2.1 LONGI Details
  - 7.2.2 LONGI Major Business
  - 7.2.3 LONGI Monocrystalline N-type TOPCon Cell Product and Services
  - 7.2.4 LONGI Monocrystalline N-type TOPCon Cell Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.2.5 LONGI Recent Developments/Updates
  - 7.2.6 LONGI Competitive Strengths & Weaknesses
- 7.3 Jinko Solar
  - 7.3.1 Jinko Solar Details
  - 7.3.2 Jinko Solar Major Business
  - 7.3.3 Jinko Solar Monocrystalline N-type TOPCon Cell Product and Services
  - 7.3.4 Jinko Solar Monocrystalline N-type TOPCon Cell Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.3.5 Jinko Solar Recent Developments/Updates
  - 7.3.6 Jinko Solar Competitive Strengths & Weaknesses
- 7.4 JA Solar
  - 7.4.1 JA Solar Details
  - 7.4.2 JA Solar Major Business
  - 7.4.3 JA Solar Monocrystalline N-type TOPCon Cell Product and Services
  - 7.4.4 JA Solar Monocrystalline N-type TOPCon Cell Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.4.5 JA Solar Recent Developments/Updates
  - 7.4.6 JA Solar Competitive Strengths & Weaknesses
- 7.5 Trina Solar
  - 7.5.1 Trina Solar Details
  - 7.5.2 Trina Solar Major Business
  - 7.5.3 Trina Solar Monocrystalline N-type TOPCon Cell Product and Services
  - 7.5.4 Trina Solar Monocrystalline N-type TOPCon Cell Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.5.5 Trina Solar Recent Developments/Updates
  - 7.5.6 Trina Solar Competitive Strengths & Weaknesses
- 7.6 Jietai Solar
  - 7.6.1 Jietai Solar Details
  - 7.6.2 Jietai Solar Major Business
  - 7.6.3 Jietai Solar Monocrystalline N-type TOPCon Cell Product and Services
  - 7.6.4 Jietai Solar Monocrystalline N-type TOPCon Cell Production, Price, Value, Gross

## Margin and Market Share (2018-2023)

7.6.5 Jietai Solar Recent Developments/Updates

7.6.6 Jietai Solar Competitive Strengths & Weaknesses

## 7.7 LUXOR

7.7.1 LUXOR Details

7.7.2 LUXOR Major Business

7.7.3 LUXOR Monocrystalline N-type TOPCon Cell Product and Services

7.7.4 LUXOR Monocrystalline N-type TOPCon Cell Production, Price, Value, Gross

## Margin and Market Share (2018-2023)

7.7.5 LUXOR Recent Developments/Updates

7.7.6 LUXOR Competitive Strengths & Weaknesses

## 7.8 Recom

7.8.1 Recom Details

7.8.2 Recom Major Business

7.8.3 Recom Monocrystalline N-type TOPCon Cell Product and Services

7.8.4 Recom Monocrystalline N-type TOPCon Cell Production, Price, Value, Gross

## Margin and Market Share (2018-2023)

7.8.5 Recom Recent Developments/Updates

7.8.6 Recom Competitive Strengths & Weaknesses

## 7.9 AE Solar

7.9.1 AE Solar Details

7.9.2 AE Solar Major Business

7.9.3 AE Solar Monocrystalline N-type TOPCon Cell Product and Services

7.9.4 AE Solar Monocrystalline N-type TOPCon Cell Production, Price, Value, Gross

## Margin and Market Share (2018-2023)

7.9.5 AE Solar Recent Developments/Updates

7.9.6 AE Solar Competitive Strengths & Weaknesses

## 7.10 Hainan Junda Auto-Decoration

7.10.1 Hainan Junda Auto-Decoration Details

7.10.2 Hainan Junda Auto-Decoration Major Business

7.10.3 Hainan Junda Auto-Decoration Monocrystalline N-type TOPCon Cell Product and Services

7.10.4 Hainan Junda Auto-Decoration Monocrystalline N-type TOPCon Cell Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.10.5 Hainan Junda Auto-Decoration Recent Developments/Updates

7.10.6 Hainan Junda Auto-Decoration Competitive Strengths & Weaknesses

## 7.11 DAS Solar

7.11.1 DAS Solar Details

7.11.2 DAS Solar Major Business

- 7.11.3 DAS Solar Monocrystalline N-type TOPCon Cell Product and Services
- 7.11.4 DAS Solar Monocrystalline N-type TOPCon Cell Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.11.5 DAS Solar Recent Developments/Updates
- 7.11.6 DAS Solar Competitive Strengths & Weaknesses
- 7.12 Chint New Energy
  - 7.12.1 Chint New Energy Details
  - 7.12.2 Chint New Energy Major Business
  - 7.12.3 Chint New Energy Monocrystalline N-type TOPCon Cell Product and Services
  - 7.12.4 Chint New Energy Monocrystalline N-type TOPCon Cell Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.12.5 Chint New Energy Recent Developments/Updates
  - 7.12.6 Chint New Energy Competitive Strengths & Weaknesses
- 7.13 CSI Solar
  - 7.13.1 CSI Solar Details
  - 7.13.2 CSI Solar Major Business
  - 7.13.3 CSI Solar Monocrystalline N-type TOPCon Cell Product and Services
  - 7.13.4 CSI Solar Monocrystalline N-type TOPCon Cell Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.13.5 CSI Solar Recent Developments/Updates
  - 7.13.6 CSI Solar Competitive Strengths & Weaknesses
- 7.14 Tongwei
  - 7.14.1 Tongwei Details
  - 7.14.2 Tongwei Major Business
  - 7.14.3 Tongwei Monocrystalline N-type TOPCon Cell Product and Services
  - 7.14.4 Tongwei Monocrystalline N-type TOPCon Cell Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.14.5 Tongwei Recent Developments/Updates
  - 7.14.6 Tongwei Competitive Strengths & Weaknesses

## **8 INDUSTRY CHAIN ANALYSIS**

- 8.1 Monocrystalline N-type TOPCon Cell Industry Chain
- 8.2 Monocrystalline N-type TOPCon Cell Upstream Analysis
  - 8.2.1 Monocrystalline N-type TOPCon Cell Core Raw Materials
  - 8.2.2 Main Manufacturers of Monocrystalline N-type TOPCon Cell Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 Monocrystalline N-type TOPCon Cell Production Mode

8.6 Monocrystalline N-type TOPCon Cell Procurement Model

8.7 Monocrystalline N-type TOPCon Cell Industry Sales Model and Sales Channels

8.7.1 Monocrystalline N-type TOPCon Cell Sales Model

8.7.2 Monocrystalline N-type TOPCon Cell Typical Customers

## **9 RESEARCH FINDINGS AND CONCLUSION**

## **10 APPENDIX**

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Monocrystalline N-type TOPCon Cell Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World Monocrystalline N-type TOPCon Cell Production Value by Region (2018-2023) & (USD Million)

Table 3. World Monocrystalline N-type TOPCon Cell Production Value by Region (2024-2029) & (USD Million)

Table 4. World Monocrystalline N-type TOPCon Cell Production Value Market Share by Region (2018-2023)

Table 5. World Monocrystalline N-type TOPCon Cell Production Value Market Share by Region (2024-2029)

Table 6. World Monocrystalline N-type TOPCon Cell Production by Region (2018-2023) & (MW)

Table 7. World Monocrystalline N-type TOPCon Cell Production by Region (2024-2029) & (MW)

Table 8. World Monocrystalline N-type TOPCon Cell Production Market Share by Region (2018-2023)

Table 9. World Monocrystalline N-type TOPCon Cell Production Market Share by Region (2024-2029)

Table 10. World Monocrystalline N-type TOPCon Cell Average Price by Region (2018-2023) & (US\$/kW)

Table 11. World Monocrystalline N-type TOPCon Cell Average Price by Region (2024-2029) & (US\$/kW)

Table 12. Monocrystalline N-type TOPCon Cell Major Market Trends

Table 13. World Monocrystalline N-type TOPCon Cell Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (MW)

Table 14. World Monocrystalline N-type TOPCon Cell Consumption by Region (2018-2023) & (MW)

Table 15. World Monocrystalline N-type TOPCon Cell Consumption Forecast by Region (2024-2029) & (MW)

Table 16. World Monocrystalline N-type TOPCon Cell Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key Monocrystalline N-type TOPCon Cell Producers in 2022

Table 18. World Monocrystalline N-type TOPCon Cell Production by Manufacturer (2018-2023) & (MW)

Table 19. Production Market Share of Key Monocrystalline N-type TOPCon Cell Producers in 2022

Table 20. World Monocrystalline N-type TOPCon Cell Average Price by Manufacturer (2018-2023) & (US\$/kW)

Table 21. Global Monocrystalline N-type TOPCon Cell Company Evaluation Quadrant

Table 22. World Monocrystalline N-type TOPCon Cell Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and Monocrystalline N-type TOPCon Cell Production Site of Key Manufacturer

Table 24. Monocrystalline N-type TOPCon Cell Market: Company Product Type Footprint

Table 25. Monocrystalline N-type TOPCon Cell Market: Company Product Application Footprint

Table 26. Monocrystalline N-type TOPCon Cell Competitive Factors

Table 27. Monocrystalline N-type TOPCon Cell New Entrant and Capacity Expansion Plans

Table 28. Monocrystalline N-type TOPCon Cell Mergers & Acquisitions Activity

Table 29. United States VS China Monocrystalline N-type TOPCon Cell Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China Monocrystalline N-type TOPCon Cell Production Comparison, (2018 & 2022 & 2029) & (MW)

Table 31. United States VS China Monocrystalline N-type TOPCon Cell Consumption Comparison, (2018 & 2022 & 2029) & (MW)

Table 32. United States Based Monocrystalline N-type TOPCon Cell Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Monocrystalline N-type TOPCon Cell Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers Monocrystalline N-type TOPCon Cell Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers Monocrystalline N-type TOPCon Cell Production (2018-2023) & (MW)

Table 36. United States Based Manufacturers Monocrystalline N-type TOPCon Cell Production Market Share (2018-2023)

Table 37. China Based Monocrystalline N-type TOPCon Cell Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Monocrystalline N-type TOPCon Cell Production Value, (2018-2023) & (USD Million)

Table 39. China Based Manufacturers Monocrystalline N-type TOPCon Cell Production Value Market Share (2018-2023)

Table 40. China Based Manufacturers Monocrystalline N-type TOPCon Cell Production (2018-2023) & (MW)

Table 41. China Based Manufacturers Monocrystalline N-type TOPCon Cell Production Market Share (2018-2023)

Table 42. Rest of World Based Monocrystalline N-type TOPCon Cell Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers Monocrystalline N-type TOPCon Cell Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers Monocrystalline N-type TOPCon Cell Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers Monocrystalline N-type TOPCon Cell Production (2018-2023) & (MW)

Table 46. Rest of World Based Manufacturers Monocrystalline N-type TOPCon Cell Production Market Share (2018-2023)

Table 47. World Monocrystalline N-type TOPCon Cell Production Value by Efficiency, (USD Million), 2018 & 2022 & 2029

Table 48. World Monocrystalline N-type TOPCon Cell Production by Efficiency (2018-2023) & (MW)

Table 49. World Monocrystalline N-type TOPCon Cell Production by Efficiency (2024-2029) & (MW)

Table 50. World Monocrystalline N-type TOPCon Cell Production Value by Efficiency (2018-2023) & (USD Million)

Table 51. World Monocrystalline N-type TOPCon Cell Production Value by Efficiency (2024-2029) & (USD Million)

Table 52. World Monocrystalline N-type TOPCon Cell Average Price by Efficiency (2018-2023) & (US\$/kW)

Table 53. World Monocrystalline N-type TOPCon Cell Average Price by Efficiency (2024-2029) & (US\$/kW)

Table 54. World Monocrystalline N-type TOPCon Cell Production Value by Application, (USD Million), 2018 & 2022 & 2029

Table 55. World Monocrystalline N-type TOPCon Cell Production by Application (2018-2023) & (MW)

Table 56. World Monocrystalline N-type TOPCon Cell Production by Application (2024-2029) & (MW)

Table 57. World Monocrystalline N-type TOPCon Cell Production Value by Application (2018-2023) & (USD Million)

Table 58. World Monocrystalline N-type TOPCon Cell Production Value by Application (2024-2029) & (USD Million)

Table 59. World Monocrystalline N-type TOPCon Cell Average Price by Application



(2018-2023) & (US\$/kW)

Table 60. World Monocrystalline N-type TOPCon Cell Average Price by Application (2024-2029) & (US\$/kW)

Table 61. Jolywood Basic Information, Manufacturing Base and Competitors

Table 62. Jolywood Major Business

Table 63. Jolywood Monocrystalline N-type TOPCon Cell Product and Services

Table 64. Jolywood Monocrystalline N-type TOPCon Cell Production (MW), Price (US\$/kW), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. Jolywood Recent Developments/Updates

Table 66. Jolywood Competitive Strengths & Weaknesses

Table 67. LONGI Basic Information, Manufacturing Base and Competitors

Table 68. LONGI Major Business

Table 69. LONGI Monocrystalline N-type TOPCon Cell Product and Services

Table 70. LONGI Monocrystalline N-type TOPCon Cell Production (MW), Price (US\$/kW), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. LONGI Recent Developments/Updates

Table 72. LONGI Competitive Strengths & Weaknesses

Table 73. Jinko Solar Basic Information, Manufacturing Base and Competitors

Table 74. Jinko Solar Major Business

Table 75. Jinko Solar Monocrystalline N-type TOPCon Cell Product and Services

Table 76. Jinko Solar Monocrystalline N-type TOPCon Cell Production (MW), Price (US\$/kW), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Jinko Solar Recent Developments/Updates

Table 78. Jinko Solar Competitive Strengths & Weaknesses

Table 79. JA Solar Basic Information, Manufacturing Base and Competitors

Table 80. JA Solar Major Business

Table 81. JA Solar Monocrystalline N-type TOPCon Cell Product and Services

Table 82. JA Solar Monocrystalline N-type TOPCon Cell Production (MW), Price (US\$/kW), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 83. JA Solar Recent Developments/Updates

Table 84. JA Solar Competitive Strengths & Weaknesses

Table 85. Trina Solar Basic Information, Manufacturing Base and Competitors

Table 86. Trina Solar Major Business

Table 87. Trina Solar Monocrystalline N-type TOPCon Cell Product and Services

Table 88. Trina Solar Monocrystalline N-type TOPCon Cell Production (MW), Price

(US\$/kW), Production Value (USD Million), Gross Margin and Market Share  
(2018-2023)

Table 89. Trina Solar Recent Developments/Updates

Table 90. Trina Solar Competitive Strengths & Weaknesses

Table 91. Jietai Solar Basic Information, Manufacturing Base and Competitors

Table 92. Jietai Solar Major Business

Table 93. Jietai Solar Monocrystalline N-type TOPCon Cell Product and Services

Table 94. Jietai Solar Monocrystalline N-type TOPCon Cell Production (MW), Price  
(US\$/kW), Production Value (USD Million), Gross Margin and Market Share  
(2018-2023)

Table 95. Jietai Solar Recent Developments/Updates

Table 96. Jietai Solar Competitive Strengths & Weaknesses

Table 97. LUXOR Basic Information, Manufacturing Base and Competitors

Table 98. LUXOR Major Business

Table 99. LUXOR Monocrystalline N-type TOPCon Cell Product and Services

Table 100. LUXOR Monocrystalline N-type TOPCon Cell Production (MW), Price  
(US\$/kW), Production Value (USD Million), Gross Margin and Market Share  
(2018-2023)

Table 101. LUXOR Recent Developments/Updates

Table 102. LUXOR Competitive Strengths & Weaknesses

Table 103. Recom Basic Information, Manufacturing Base and Competitors

Table 104. Recom Major Business

Table 105. Recom Monocrystalline N-type TOPCon Cell Product and Services

Table 106. Recom Monocrystalline N-type TOPCon Cell Production (MW), Price  
(US\$/kW), Production Value (USD Million), Gross Margin and Market Share  
(2018-2023)

Table 107. Recom Recent Developments/Updates

Table 108. Recom Competitive Strengths & Weaknesses

Table 109. AE Solar Basic Information, Manufacturing Base and Competitors

Table 110. AE Solar Major Business

Table 111. AE Solar Monocrystalline N-type TOPCon Cell Product and Services

Table 112. AE Solar Monocrystalline N-type TOPCon Cell Production (MW), Price  
(US\$/kW), Production Value (USD Million), Gross Margin and Market Share  
(2018-2023)

Table 113. AE Solar Recent Developments/Updates

Table 114. AE Solar Competitive Strengths & Weaknesses

Table 115. Hainan Junda Auto-Decoration Basic Information, Manufacturing Base and  
Competitors

Table 116. Hainan Junda Auto-Decoration Major Business

Table 117. Hainan Junda Auto-Decoration Monocrystalline N-type TOPCon Cell Product and Services

Table 118. Hainan Junda Auto-Decoration Monocrystalline N-type TOPCon Cell Production (MW), Price (US\$/kW), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 119. Hainan Junda Auto-Decoration Recent Developments/Updates

Table 120. Hainan Junda Auto-Decoration Competitive Strengths & Weaknesses

Table 121. DAS Solar Basic Information, Manufacturing Base and Competitors

Table 122. DAS Solar Major Business

Table 123. DAS Solar Monocrystalline N-type TOPCon Cell Product and Services

Table 124. DAS Solar Monocrystalline N-type TOPCon Cell Production (MW), Price (US\$/kW), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 125. DAS Solar Recent Developments/Updates

Table 126. DAS Solar Competitive Strengths & Weaknesses

Table 127. Chint New Energy Basic Information, Manufacturing Base and Competitors

Table 128. Chint New Energy Major Business

Table 129. Chint New Energy Monocrystalline N-type TOPCon Cell Product and Services

Table 130. Chint New Energy Monocrystalline N-type TOPCon Cell Production (MW), Price (US\$/kW), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 131. Chint New Energy Recent Developments/Updates

Table 132. Chint New Energy Competitive Strengths & Weaknesses

Table 133. CSI Solar Basic Information, Manufacturing Base and Competitors

Table 134. CSI Solar Major Business

Table 135. CSI Solar Monocrystalline N-type TOPCon Cell Product and Services

Table 136. CSI Solar Monocrystalline N-type TOPCon Cell Production (MW), Price (US\$/kW), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 137. CSI Solar Recent Developments/Updates

Table 138. Tongwei Basic Information, Manufacturing Base and Competitors

Table 139. Tongwei Major Business

Table 140. Tongwei Monocrystalline N-type TOPCon Cell Product and Services

Table 141. Tongwei Monocrystalline N-type TOPCon Cell Production (MW), Price (US\$/kW), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 142. Global Key Players of Monocrystalline N-type TOPCon Cell Upstream (Raw Materials)

Table 143. Monocrystalline N-type TOPCon Cell Typical Customers

Table 144. Monocrystalline N-type TOPCon Cell Typical Distributors

List of Figure

Figure 1. Monocrystalline N-type TOPCon Cell Picture

Figure 2. World Monocrystalline N-type TOPCon Cell Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World Monocrystalline N-type TOPCon Cell Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World Monocrystalline N-type TOPCon Cell Production (2018-2029) & (MW)

Figure 5. World Monocrystalline N-type TOPCon Cell Average Price (2018-2029) & (US\$/kW)

Figure 6. World Monocrystalline N-type TOPCon Cell Production Value Market Share by Region (2018-2029)

Figure 7. World Monocrystalline N-type TOPCon Cell Production Market Share by Region (2018-2029)

Figure 8. North America Monocrystalline N-type TOPCon Cell Production (2018-2029) & (MW)

Figure 9. Europe Monocrystalline N-type TOPCon Cell Production (2018-2029) & (MW)

Figure 10. China Monocrystalline N-type TOPCon Cell Production (2018-2029) & (MW)

Figure 11. Japan Monocrystalline N-type TOPCon Cell Production (2018-2029) & (MW)

Figure 12. Monocrystalline N-type TOPCon Cell Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Monocrystalline N-type TOPCon Cell Consumption (2018-2029) & (MW)

Figure 15. World Monocrystalline N-type TOPCon Cell Consumption Market Share by Region (2018-2029)

Figure 16. United States Monocrystalline N-type TOPCon Cell Consumption (2018-2029) & (MW)

Figure 17. China Monocrystalline N-type TOPCon Cell Consumption (2018-2029) & (MW)

Figure 18. Europe Monocrystalline N-type TOPCon Cell Consumption (2018-2029) & (MW)

Figure 19. Japan Monocrystalline N-type TOPCon Cell Consumption (2018-2029) & (MW)

Figure 20. South Korea Monocrystalline N-type TOPCon Cell Consumption (2018-2029) & (MW)

Figure 21. ASEAN Monocrystalline N-type TOPCon Cell Consumption (2018-2029) & (MW)

Figure 22. India Monocrystalline N-type TOPCon Cell Consumption (2018-2029) &

(MW)

Figure 23. Producer Shipments of Monocrystalline N-type TOPCon Cell by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 24. Global Four-firm Concentration Ratios (CR4) for Monocrystalline N-type TOPCon Cell Markets in 2022

Figure 25. Global Four-firm Concentration Ratios (CR8) for Monocrystalline N-type TOPCon Cell Markets in 2022

Figure 26. United States VS China: Monocrystalline N-type TOPCon Cell Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 27. United States VS China: Monocrystalline N-type TOPCon Cell Production Market Share Comparison (2018 & 2022 & 2029)

Figure 28. United States VS China: Monocrystalline N-type TOPCon Cell Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States Based Manufacturers Monocrystalline N-type TOPCon Cell Production Market Share 2022

Figure 30. China Based Manufacturers Monocrystalline N-type TOPCon Cell Production Market Share 2022

Figure 31. Rest of World Based Manufacturers Monocrystalline N-type TOPCon Cell Production Market Share 2022

Figure 32. World Monocrystalline N-type TOPCon Cell Production Value by Efficiency, (USD Million), 2018 & 2022 & 2029

Figure 33. World Monocrystalline N-type TOPCon Cell Production Value Market Share by Efficiency in 2022

Figure 34. >22%

Figure 35. >24%

Figure 36. >25%

Figure 37. Others

Figure 38. World Monocrystalline N-type TOPCon Cell Production Market Share by Efficiency (2018-2029)

Figure 39. World Monocrystalline N-type TOPCon Cell Production Value Market Share by Efficiency (2018-2029)

Figure 40. World Monocrystalline N-type TOPCon Cell Average Price by Efficiency (2018-2029) & (US\$/kW)

Figure 41. World Monocrystalline N-type TOPCon Cell Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 42. World Monocrystalline N-type TOPCon Cell Production Value Market Share by Application in 2022

Figure 43. Industrial and Commercial Applications

Figure 44. Household Application

Figure 45. World Monocrystalline N-type TOPCon Cell Production Market Share by Application (2018-2029)

Figure 46. World Monocrystalline N-type TOPCon Cell Production Value Market Share by Application (2018-2029)

Figure 47. World Monocrystalline N-type TOPCon Cell Average Price by Application (2018-2029) & (US\$/kW)

Figure 48. Monocrystalline N-type TOPCon Cell Industry Chain

Figure 49. Monocrystalline N-type TOPCon Cell Procurement Model

Figure 50. Monocrystalline N-type TOPCon Cell Sales Model

Figure 51. Monocrystalline N-type TOPCon Cell Sales Channels, Direct Sales, and Distribution

Figure 52. Methodology

Figure 53. Research Process and Data Source

## I would like to order

Product name: Global Monocrystalline N-type TOPCon Cell Supply, Demand and Key Producers, 2023-2029

Product link: <https://marketpublishers.com/r/GF34B812633BEN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GF34B812633BEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

